



1/7

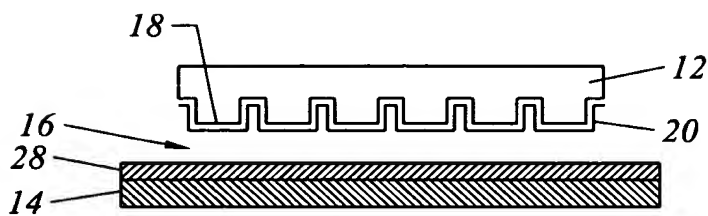


FIG. 1A

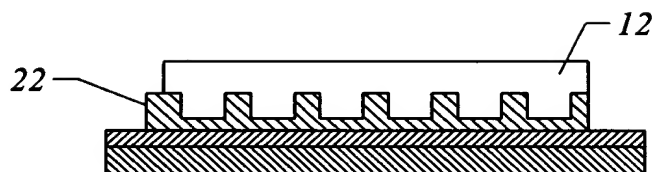


FIG. 1B

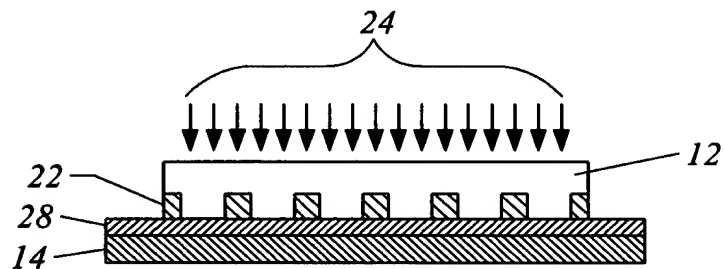


FIG. 1C

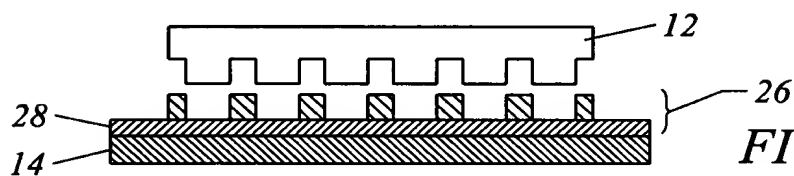


FIG. 1D



FIG. 1E

10 ↗



2/7

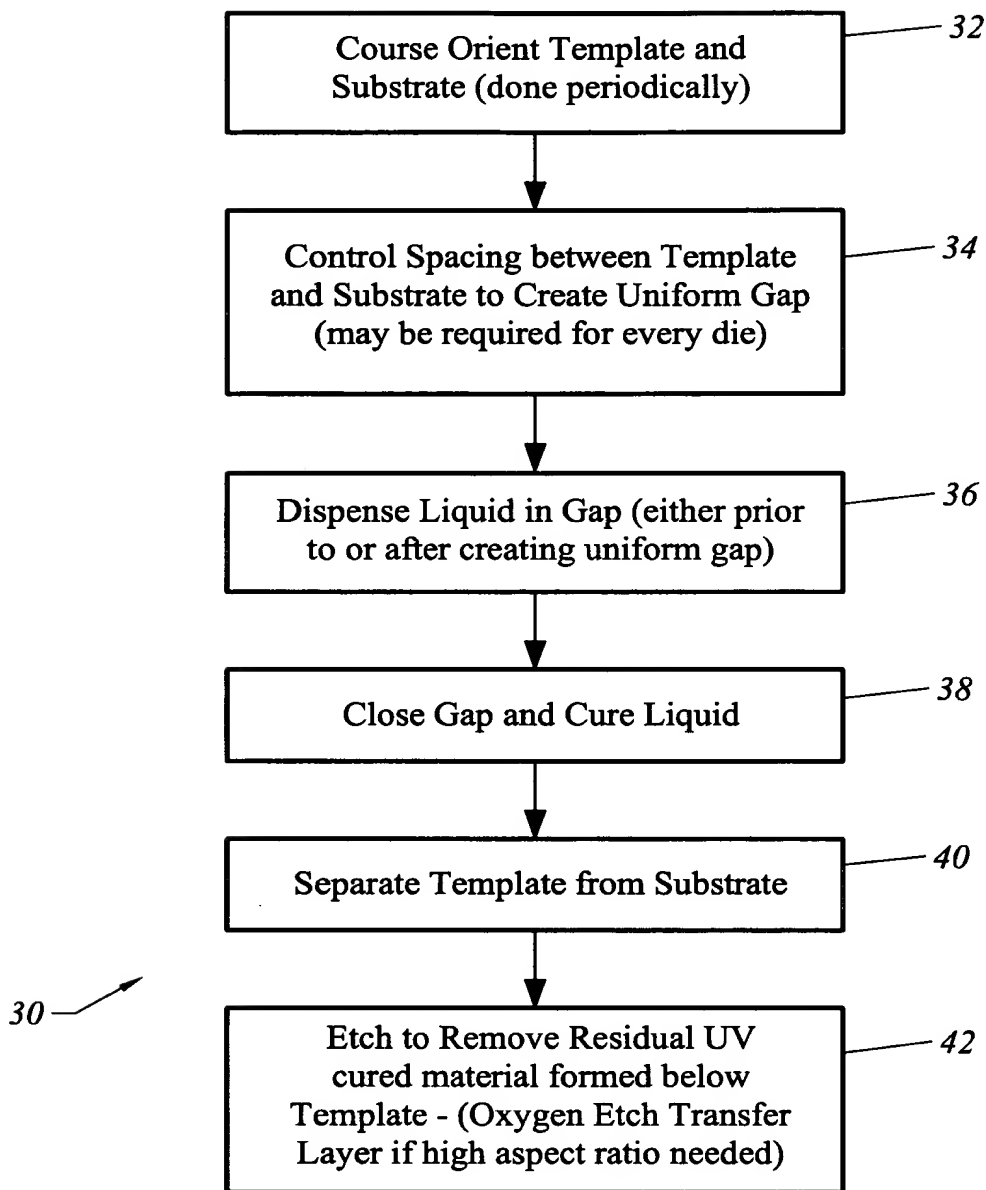


FIG. 2



3/7

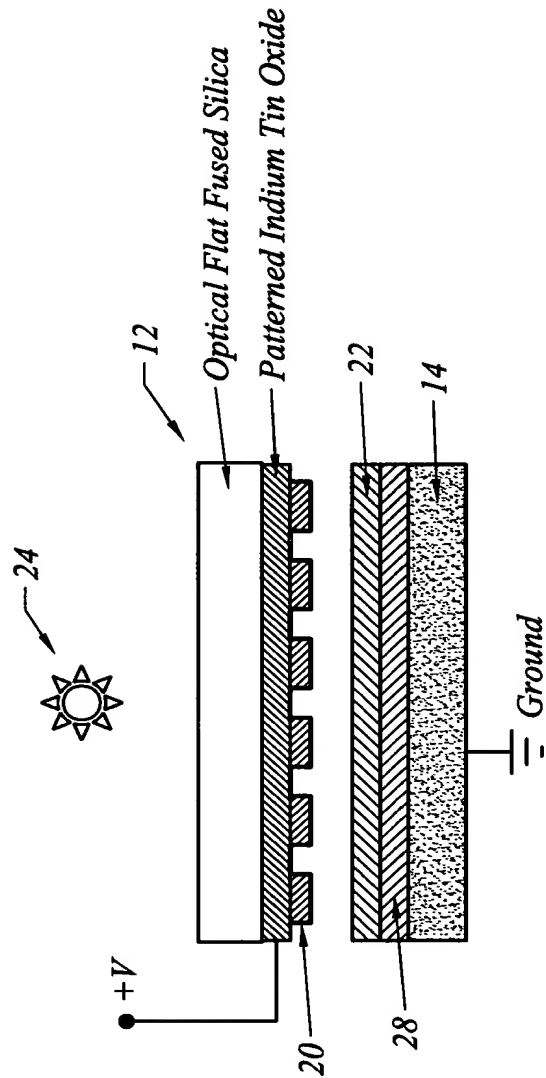
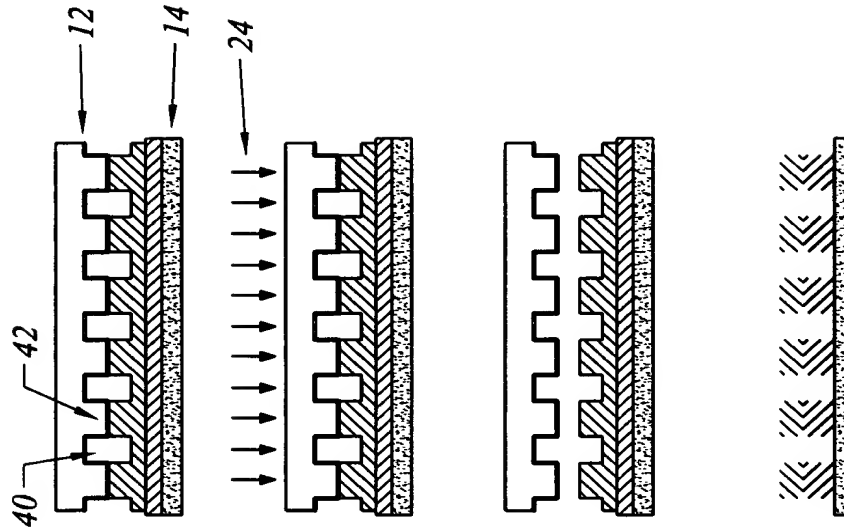


FIG. 3

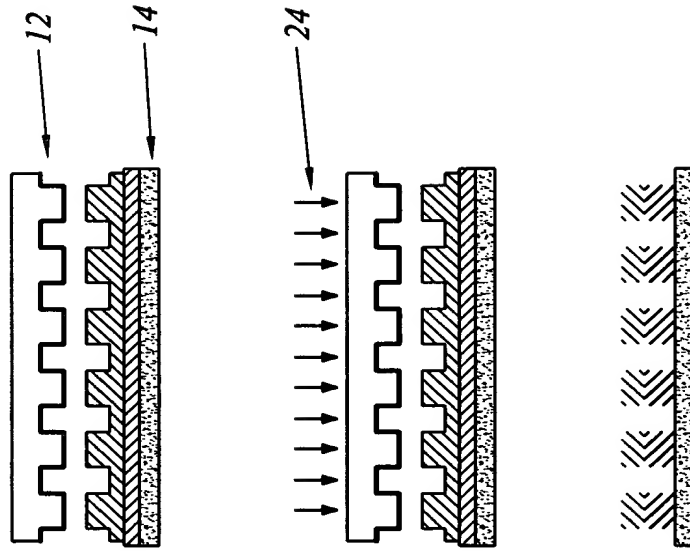


- Apply electric field and maintain uniform gap to induce the liquid to adhere to the template
- UV cure the liquid
- Separate the template from the substrate
- Etch to break-through UV cured liquid, followed by RIE etch transfer into transfer layer to obtain high-aspect ratio structure

FIG. 4



5/7



- Apply electric field and maintain uniform gap to induce the liquid to be attracted to the template without making contact

- UV cure the liquid

- Etch to break-through UV cured liquid, followed by RIE etch transfer into transfer layer to obtain high-aspect ratio structure

FIG. 5



6/7

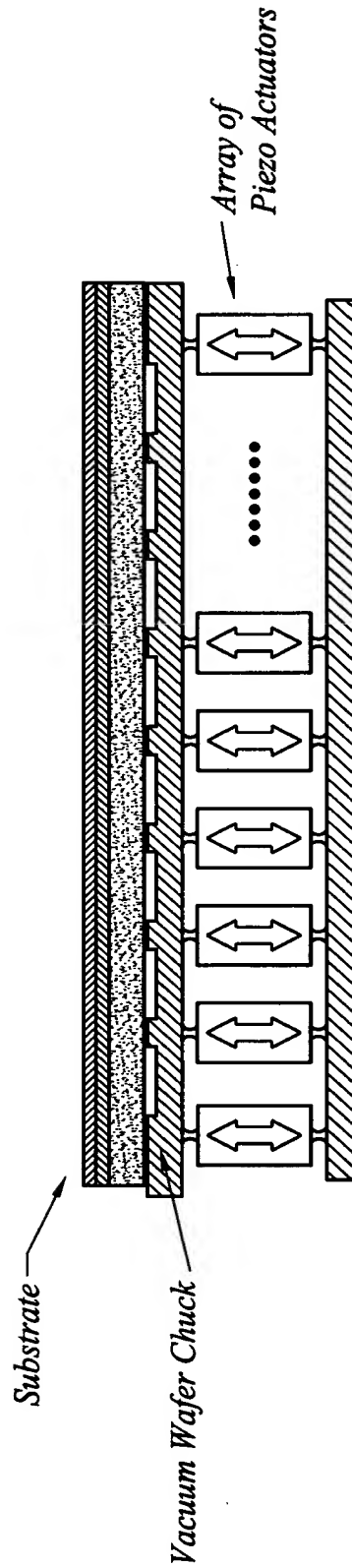


FIG. 6



7/7

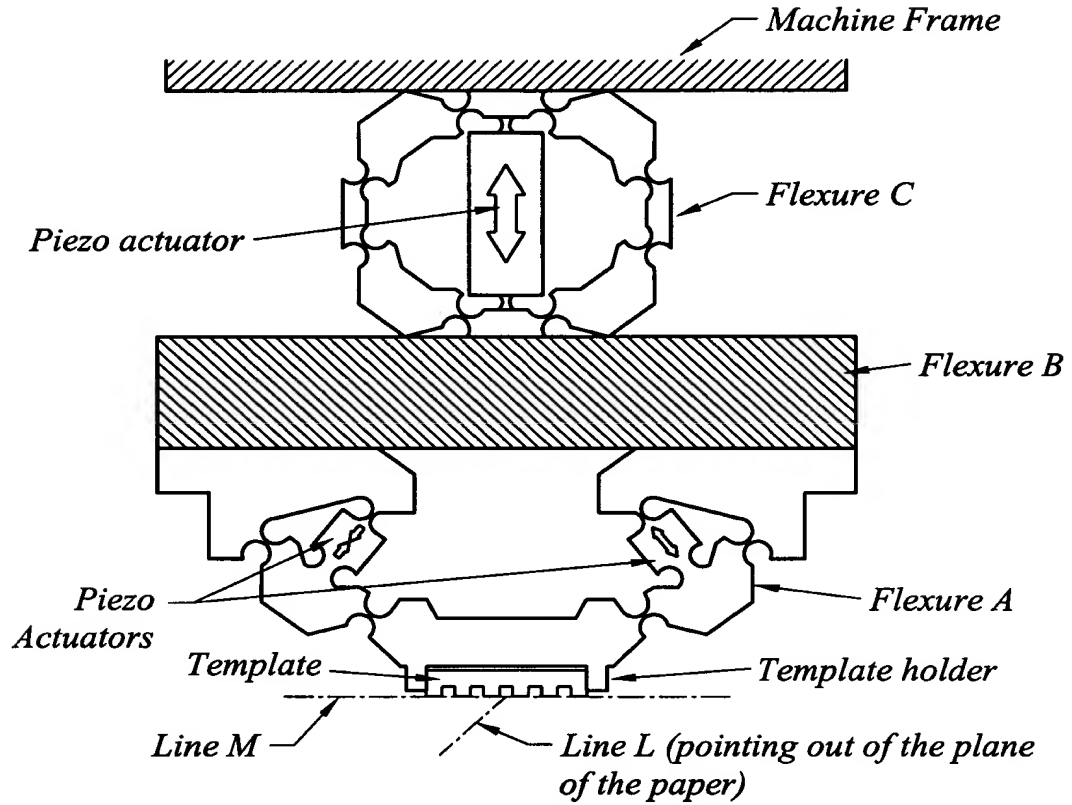


FIG. 7